

PATENT APPLICATION OF
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FOR
SPECIMEN COLLECTOR

BACKGROUND-FIELD OF INVENTION

The present invention relates generally to a device for collecting specimen. More specifically the present invention relates to an economical specimen collector for collecting liquid specimen.

BACKGROUND-DESCRIPTION OF RELATED ART

Specimen often needs to be collected for examination and testing from a subject. A technician or the subject himself may perform the collection of specimen. The specimen may be collected by using a spatula to obtain the specimen and then placing the specimen in a separate container. The specimen may also be collected by using a vacuum container with preexisting vacuum in the container to suck the specimen into the container to be collected. However, the

vacuum container has a limited shelf life due to the slow leakage of air into the vacuum container. Furthermore, a vacuum container generally has a relatively large volume to allow a reasonable amount of specimen to be collected even after some reduction of vacuum due to the leakage of air into the vacuum container.

SUMMARY OF THE INVENTION

The present invention is an economical specimen collector comprising a hollow elongated tubular housing with a sealed end and an open end with an opening means provided near the sealed end. A viscous substance such as silicone may also be disposed near the open end of the hollow elongated tubular housing to seal the collected specimen in the hollow elongated tubular housing. The specimen collector may be used to collect liquid specimen and subsequently release the specimen by allowing air to enter the hollow elongated tubular housing through the opening means.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 shows the preferred embodiment of the specimen collector.

Figure 2 shows another embodiment of the specimen collector.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Figure 1 shows the preferred embodiment of the present invention. In the preferred embodiment, the specimen collector comprises of a hollow elongated tubular housing **1** with a sealed end **2** and an open end **3** with an opening means **4** provided near the sealed end **2**. The preferred opening means **4** is a score line that will allow the hollow elongated tubular housing **1**

to be broken open at the score line. Other suitable opening means such as a snap-on cap or a screw-on cap may also be used. The specimen collector may be used to collect liquid specimen and subsequently release the specimen by allowing air to enter the hollow elongated tubular housing 1 through the opening means 4.

The specimen collector may be used to collect liquid specimen such as saliva by placing the open end 3 of the specimen collector into a subject's mouth. The subject need merely first suck the air from the specimen collector by creating a negative pressure inside the subject's mouth cavity. The subject may then place the open end 3 of the specimen collector in contact with the subject's saliva and allow air to re-enter his mouth. The negative pressure in the specimen collector will then suck the subject's saliva into the hollow elongated tubular housing 1 of the specimen collector to be collected and removed. The collected specimen may subsequently be released for examination and testing by simply allowing air to enter the specimen collector near the sealed end 2 through the opening means 4 to release the collected specimen through the open end 3 of the specimen collector.

Figure 2 shows another embodiment of the present invention. In this embodiment, the specimen collector comprises of a hollow elongated tubular housing 1 with a sealed end 2 and an open end 3 with an opening means 4 provided near the sealed end 2 and a viscous fluid 5 provided near the open end 3. The preferred opening means 4 is a score line that will allow the hollow elongated tubular housing 1 to be broken open at the score line. Other suitable opening means such as a snap-on cap or a screw-on cap may also be used. The preferred viscous fluid 5 is silicone but any other suitable viscous fluid may also be used. The specimen collector may be used to collect liquid specimen and subsequently release the specimen by allowing air to enter the hollow elongated tubular housing 1 through the opening means 4. The viscous fluid 5 will

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specimen such as saliva by placing

The subject need merely first
pressure inside the subject's
fluid 5 due to the exiting of the air
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v air to re-enter his mouth. The
subject's saliva into the hollow
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1 and the external atmosphere.
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2 through the opening means 4 to
and open end 3 of the specimen

ties, these should not be construed
illustrations of some of the
scope of the invention should be
rather than by the examples given.